

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2003/000224

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G08B 17/00, G08B 17/117, G08B 27/00, A62C 37/36, H01H 39/00, H02H 3/02
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G08B, A22C, H01H, H02H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, PAJ, FULLTEXT, EPOQUE, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 0139222 A2 (MCGILL, JAMES, C.), 31 May 2001 (31.05.2001), figures 3-5,20-22, claims 24-25, Summary of the invention pages 2-8	1-3
Y	--	4-10
Y	US 6380852 B1 (MICHAEL G. HARTMAN ET AL), 30 April 2002 (30.04.2002), column 2, line 7 - column 3, line 57, figures 1-20, claims 1-23	4-10
A	DE 4241862 A1 (ABB PATENT GMBH), 16 June 1994 (16.06.1994), figures 1-3, claims 1-11	1-10

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

18 March 2004

Date of mailing of the international search report

18-03-2004

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2003/000224

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 1383104 A (AIR INDUSTRIE), 5 February 1975 (05.02.1975), figure 1, claims 1-8 --	1-10
A	US 4275311 A (UMBERTO AGAZZONE ET AL), 23 June 1981 (23.06.1981), figures 1-3, claims 1-9 --	1-10
A	DK 159167 B (FRANCO MARIA CONTE), 10 Sept 1990 (10.09.1990), figures 1-2, abstract -- -----	1-10

27/02/2004

P NO 2003/000224

WO	0139222	A2	31/05/2001	AU	2050601 A	04/06/2001
US	6380852	B1	30/04/2002	AU	1452001 A	14/05/2001
				EP	1257986 A	20/11/2002
				WO	0133527 A	10/05/2001
DE	4241862	A1	16/06/1994	NONE		
GB	1383104	A	05/02/1975	DE	2224660 A,B	07/12/1972
				FR	2138368 A,B	05/01/1973
				NL	147957 B	15/12/1975
				NL	7203696 A	23/11/1972
				US	RE28394 E	15/04/1975
US	4275311	A	23/06/1981	CA	1131701 A	14/09/1982
				DE	3019611 A	27/11/1980
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				JP	1455103 C	25/08/1988
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				JP	63002017 B	16/01/1988
DK	159167	B	10/09/1990	AR	228973 A	13/05/1983
				AT	15562 T	15/09/1985
				AU	1843388 A	22/09/1988
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				BR	8202411 A	12/04/1983
				CA	1237505 A	31/05/1988
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				DK	185582 A	06/11/1982
				EP	0065497 A,B	24/11/1982
				SE	0065497 T3	
				ES	511787 A	16/02/1983
				ES	8304343 A	16/05/1983
				FI	75430 B,C	29/02/1988
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				GR	75842 A	02/08/1984
				IE	52445 B	28/10/1987
				IE	821010 L	05/11/1982
				IL	65497 D	00/00/0000
				IT	1167878 B	20/05/1987
				IT	8109399 D	00/00/0000
				JP	57186160 A	16/11/1982
				MX	151271 A	29/10/1984
				NO	153236 B,C	28/10/1985
				NO	821461 A	08/11/1982
				NZ	200307 A	31/05/1985
				PT	74843 A,B	01/06/1982
				YU	44342 B	30/06/1990
				YU	94582 A	20/03/1985
				ZA	8203039 A	30/03/1983

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

FRIST FØRT 8 mar '04

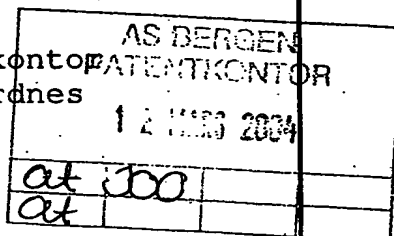
PCT

WRITTEN OPINION OF THE
INTERNATIONAL PRELIMINARY
EXAMINING AUTHORITY

(PCT Rule 66)

To:

AS Bergen Patentkontor
P.O. Box 1998 Nordnes
N-5817 Bergen
Norge



Date of mailing
(day/month/year)

10-03-2004

Applicant's or agent's file reference

JOO

REPLY DUE

within 60 days from
the above date of mailing

International application No.

PCT/NO 2003/000224

International filing date (day/month/year)

30.06.2003

Priority date (day/month/year)

28.06.2002

International Patent Classification (IPC) or both national classification and IPC

G08B21/01, G08B17/00, G08B17/117, G08B27/00, A62C37/36, H01H39/00H02H3/02

Applicant

StS Stillasservice et al

1. ☐ The written opinion established by the International Searching Authority:☐ is☐ is not

considered to be a written opinion of the International Preliminary Examining Authority.

2. This first (first, etc.) opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

3. The applicant is hereby invited to reply to this opinion.

When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(e).

How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

Also For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis.
For an informal communication with the examiner, see Rule 66.6.
For an additional opportunity to submit amendments, see Rule 66.4.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.

4. The final date by which the international preliminary report on patentability
(Chapter II of the PCT) must be established according to Rule 69.2 is:

28.10.2004

Name and mailing address of the IPEA/SE

Patent- och registreringsverket
Box 5055
S-102 42 STOCKHOLM

Facsimile No. 46 8 667 72 88

Form PCT/IPEA/408 (cover sheet) (January 2004)

Authorized officer

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Telephone No. 46 8 782 25 00

WRITE OPINION OF THE
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International application No.

PCT/NO 2003/000224

Box No. I Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))
☐ publication of the international application (under Rule 12.4)
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this opinion has been established on the basis of (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed."*):

☒ the international application as originally filed/furnished

☐ the description:

pages _____ as originally filed/furnished
pages _____ received by this Authority on _____
pages _____ received by this Authority on _____

☐ the claims:

pages _____ as originally filed/furnished
pages _____ as amended (together with any statement) under Article 19
pages _____ received by this Authority on _____
pages _____ received by this Authority on _____

☐ the drawings:

pages _____ as originally filed/furnished
pages _____ received by this Authority on _____
pages _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____
☐ the claims, Nos. _____
☐ the drawings, sheets/figs _____
☐ the sequence listing (*specify*): _____
☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____
☐ the claims, Nos. _____
☐ the drawings, sheets/figs _____
☐ the sequence listing (*specify*): _____
☐ any table(s) related to the sequence listing (*specify*): _____

WRITING OPINION OF THE
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International application No.

PCT/NO 2003/000224

Box No. V Reasoned statement under Rule 66.2(a)(II) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims

Claims

Inventive step (IS)

Claims

Claims

1-10

Industrial applicability (IA)

Claims

Claims

2. Citations and explanations:

The claimed invention relates to a device for a security system on an installation in connection with the operation of a habitat in which an object, in work that involves heat production such as flames, sparks and the like is isolated from the surroundings. The object is to make a security system device for operation of habitats on installations. The solution is to provide a system which does not largely leave safety to the human factor, i.e. to the operators working in connection with the habitat.

Of the documents cited in the International Search Report, the following will be discussed:

D1) WO 0139222 A2

D2) US6380852 B1

Document D1 discloses a method for a security system on an installation in connection with operation of habitat 26 (see figs 3-5 and summary of the invention pages 2-8). The safety system comprises a shut-off device 103 (see figs 20-22) which is mounted on the meter box 100 and which activates the circuit breaker 102. A security system 30 may be incorporated with the valve control system.

A security system 30 is receiving a signal from other sensors, such as a CO sensor, a gas sensor; a smoke sensor, a fire alarm; sprinklers, a panic button, etc (see claims 24 and 25). The control module 25 can also communicate with the security system controller 30. The gas supply includes a shut-off valve 18. The control module 25 has the ability to detect flow problems, such as excess flow rates, that exceed a predetermined set point. The pressure information detected by the pressure sensor 34 is sent to the valve 10 and/or the control module 25 and valve mechanism for shutting off the flow in a fluid line shutoff, not only of the flow of gas to a point of use installation, but also of the supply of electricity.

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V

D2 also discloses a device for a security system (see figs.1-20 and column 2, line 7- column 3, line 58 and claims 1-23).

The embodiment in claim 1 in D1 differs from application in that the sensor is replaced to detect the defect in the object. This difference has not been shown to involve a technical effect. Thus, a person skilled in the art would try to increase of the security of the system. Hence, claims 1-3 and 5 are not considered to involve an inventive step.

The remaining claims 4 and 6-10 are considered to represent modifications obvious to a person skilled in the art, and are therefore not considered fulfil the requirement of inventive step.